

ISOLATED TAB SILICON CONTROLLED RECTIFIERS 30 AMP, 200 THRU 1200 VOLT



# Semiconductor Corp.

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## DESCRIPTION:

The CENTRAL SEMICONDUCTOR CS218I-30B series types are epoxy molded SCRs designed for sensing circuit and control system applications. This device is mounted in a TO-218 case with an isolated mounting tab.

#### MARKING: FULL PART NUMBER

MAXIMUM RATINGS: (T <sub>C</sub> =25°C unless otherwise noted) CS218I								
Peak Repetitive Off-State Voltage	SYMBOL V <sub>DRM</sub> , V <sub>RRM</sub>	<u>-30B</u> 200	<u>-30D</u> 400	<u>-30M</u> 600	<u>-30N</u> 800	<u>-30P</u> 1000	<u>-30PB</u> 1200	UNITS V
RMS On-State Current (T <sub>C</sub> =85°C)	IT(RMS)				0			А
Peak One Cycle Surge Current, t=10ms	ITSM			40	00			А
l <sup>2</sup> t Value for Fusing, t=10ms	l <sup>2</sup> t			80	00			A <sup>2</sup> s
Peak Gate Power Dissipation, tp=10µs	P <sub>GM</sub>			5	0			W
Average Gate Power Dissipation	P <sub>G(AV)</sub>			1	.0			W
Peak Forward Gate Current, tp=10µs	IFGM			4	.0			А
Peak Forward Gate Voltage, tp=10µs	V <sub>FGM</sub>			1	6			V
Peak Reverse Gate Voltage	V <sub>RGM</sub>			5	.0			V
Critical Rate of Rise of On-State Current	di/dt			10	00			A/µs
Operating Junction Temperature	ТЈ			-40 to	+125			°C
Storage Temperature	T <sub>stg</sub>			-40 to	+150			°C
Thermal Resistance	$\Theta_{JA}$			5	0			°C/W
Thermal Resistance	$\Theta^{JC}$			1	.1			°C/W
Isolation Voltage	VISO			25	00			V <sub>(RMS)</sub>
ELECTRICAL CHARACTERISTICS: (T	ELECTRICAL CHARACTERISTICS: (T <sub>C</sub> =25°C unless otherwise noted)							

SYMBOL	TEST CONDITIONS Rated V <sub>DRM</sub> , V <sub>RRM</sub>	MIN	<b>MAX</b> 20	<b>UNITS</b> μΑ
IDRM, IRRM	Rated V <sub>DRM</sub> , V <sub>RRM</sub> , T <sub>C</sub> =125°C		6.0	mA
IGT	V <sub>D</sub> =12V, R <sub>L</sub> =33Ω		50	mA
ЧH	I <sub>T</sub> =500mA		75	mA
V <sub>GT</sub>	V <sub>D</sub> =12V, R <sub>L</sub> =33Ω		1.5	V
$v_{TM}$	I <sub>TM</sub> =60A, tp=380ms		2.1	V
dv/dt	V <sub>D</sub> =⅔Rated V <sub>DRM</sub> ,			
	R <sub>GK</sub> =∞, T <sub>C</sub> =125°C (200V thru 800V)	500		V/µs
dv/dt	V <sub>D</sub> =⅔Rated V <sub>DRM</sub> ,			
	R <sub>GK</sub> =∞, T <sub>C</sub> =125°C (1000V, 1200V)	250		V/µs

R2 (4-November 2013)

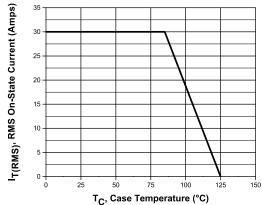


CS218I-30B CS218I-30N CS218I-30D CS218I-30P CS218I-30M CS218I-30PB

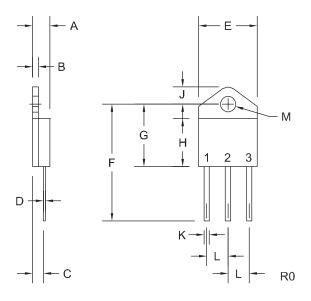
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### TYPICAL ELECTRICAL CHARACTERISTICS

RMS On-State Current Derating



#### **TO-218 THYRISTOR CASE - MECHANICAL OUTLINE**



DIMENSIONS					
	INCHES		MILLIMETERS		
SYMBOL	MIN	MAX	MIN	MAX	
A	0.173	0.181	4.39	4.60	
В	0.057	0.061	1.45	1.55	
С	0.106	0.114	2.69	2.90	
D	0.020	-	0.51	-	
E	0.594	0.610	15.09	15.49	
F	1.220		30.99		
G	0.630	0.650	16.00	16.51	
Н	-	0.500	-	12.70	
J	0.155	0.181	3.94	4.60	
K	0.047	0.055	1.19	1.40	
L	0.213	0.222	5.40	5.64	
M	0.160	0.165	4.06	4.20	

TO-218 Thyristor (REV: R0)

#### LEAD CODE:

- 1) Cathode
- 2) Anode

3) Gate

Tab is isolated from all leads

MARKING: FULL PART NUMBER

R2 (4-November 2013)

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## **OUTSTANDING SUPPORT AND SUPERIOR SERVICES**

#### PRODUCT SUPPORT

Central's operations team provides the highest level of support to insure product is delivered on-time.

- Supply management (Customer portals)
- Inventory bonding
- · Consolidated shipping options

#### **DESIGNER SUPPORT/SERVICES**

Central's applications engineering team is ready to discuss your design challenges. Just ask.

- Free quick ship samples (2<sup>nd</sup> day air)
- Online technical data and parametric search
- SPICE models
- Custom electrical curves
- Environmental regulation compliance
- Customer specific screening
- Up-screening capabilities

Special wafer diffusions

· Custom product packing

- PbSn plating options
- Package details
- Application notes
- · Application and design sample kits

Custom bar coding for shipments

Custom product and package development

#### **REQUESTING PRODUCT PLATING**

- 1. If requesting Tin/Lead plated devices, add the suffix "TIN/LEAD" to the part number when ordering (example: 2N2222A TIN/LEAD).
- If requesting Lead (Pb) Free plated devices, add the suffix "PBFREE" to the part number when ordering (example: 2N2222A PBFREE).

#### CONTACT US

#### **Corporate Headquarters & Customer Support Team**

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# Product End of Life Notification

PDN ID:	PDN01022 Rev:001
Notification Date:	4/07/17
Last Buy Date:	10/04/16
Last Shipment Date	4/04/17

Summary:All devices manufactured in the TO-218 package are discontinued and now classified as End of Life (EOL). Central is in the process of qualifying replacements for certain TO-218 devices in the TO-247 package; items with planned replacements are shown below. Rev:001 of PDN#01022, April 7, 2017 issued to remove TIP36C and TIP36C SL from the PDN to address market demand. Part numbers TIP36C and TIP36C SL are once again active devices.

Although Central Semiconductor Corp. makes every effort to continue to produce devices that have been proclaimed EOL (End of Life) by various manufacturers, it is an accepted industry practice to discontinue certain devices when customer demand falls below a minimum level of sustainability. Accordingly, the following product(s) have been transitioned to End of Life status as part of Central's Product Management Process. Any replacement product will be noted below. The effective date for placing the last purchase order will be six(6) months from the date of this notice and twelve(12) months from the notice date for final shipments; this may be extended if inventory is available.

	Central Part Number	Replacement
	BDV64	N/A
	BDV64A	N/A
	BDV64B	N/A
	BDV65	N/A
	BDV65A	N/A
	BDV65B	N/A
	BDW83A	N/A
	BDW83B	N/A
	BDW83C	N/A
	BDW84A	N/A
	BDW84B	N/A
	BDW84C	N/A
	BUV47A	N/A
	BU426	N/A
	CEN1356	N/A
	CQ218-45B	N/A
	CQ218-45D	N/A
	CQ218-45M	N/A
	CQ218-45N	N/A
	CQ218I-25B	N/A
	CQ218I-25D	N/A
	CQ218I-25M	N/A
	CQ218I-25N	N/A
	CQ218I-40B	N/A
	CQ218I-40D	N/A
	CQ218I-40M	N/A
	CQ218I-40N	N/A
	CS218-35B	N/A
	CS218-35D	N/A
	CS218-35M	N/A
	CS218-35N	N/A
	CS218-35P	N/A
	CS218-35PB	N/A
	CS218-55B	N/A
	CS218-55D	N/A
k	** CONTINUED ***	

DISCLAIMER: This End of Life (EOL) notification is in accordance with JEDEC standard JESD48 - Product Discontinuance. Central Semiconductor Corp. will make every effort to offer life-time buy (LTB) opportunities and/or offer replacement devices to existing customers for discontinued devices, however, one or both may not be possible for all devices. Please contact your local Central Semiconductor sales representative for LTB opportunities/additional information.



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#### \*\*\* CONTINUED FROM PRIOR PAGE \*\*\*

CS218-55M     N/A       CS218-55N     N/A       CS218-55P     N/A       CS218-55PB     N/A       CS218-55PB     N/A       CS218-30D     N/A       CS218-30D     N/A       CS218-30D     N/A       CS218-30D     N/A       CS218-30M     N/A       CS2181-30P     N/A       CS2181-30PB     N/A       CS2181-50B     N/A       CS2181-50B     N/A       CS2181-50D     N/A       CS2181-50P     N/A       TIP142     TIP142 TO-247       TIP141     TIP142 TO-247       TIP142     TIP147 TO-247       TIP145     TIP147 TO-247       TIP145     TIP147 TO-247       TIP3055     N/A       TIP33A     TIP35C TO-247       TIP33B     T	Central Part Number	Replacement
CS218-55N   N/A     CS218-55P   N/A     CS218-55PB   N/A     CS218-55PB   N/A     CS218-30B   N/A     CS2181-30D   N/A     CS2181-30M   N/A     CS2181-30M   N/A     CS2181-30P   N/A     CS2181-30P   N/A     CS2181-30PB   N/A     CS2181-50B   N/A     CS2181-50D   N/A     CS2181-50N   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50PB   N/A     TIP140   TIP142 TO-247     TIP141   TIP142 TO-247     TIP142   TIP147 TO-247     TIP145   TIP147 TO-247     TIP146   TIP147 TO-247     TIP3055   N/A     TIP33A   TIP35C TO-247     TIP33A   TIP35C TO-247     TIP33A   TIP35C TO-247     TIP34B   TIP36C TO-247     TIP35A   TIP35C TO-247     TIP35A   TIP35C TO-247 <td></td> <td>-</td>		-
CS218-55P   N/A     CS218-55PB   N/A     CS2181-30B   N/A     CS2181-30D   N/A     CS2181-30D   N/A     CS2181-30M   N/A     CS2181-30N   N/A     CS2181-30P   N/A     CS2181-30PB   N/A     CS2181-30PB   N/A     CS2181-50B   N/A     CS2181-50D   N/A     CS2181-50N   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50P   N/A     CS2181-50PB   N/A     TIP140   TIP142 TO-247   H     TIP142   TIP142 TO-247   H     TIP142   TIP147 TO-247   H     TIP145   TIP147 TO-247   H     TIP3055   N/A   T     TIP3055   N/A   T     TIP33A   TIP35C TO-247   H     TIP33B   TIP35C TO-247   H     TIP34B   TIP36C TO-247   H     TIP35A   TIP35C TO-		
CS218-55PB   N/A     CS218I-30B   N/A     CS218I-30D   N/A     CS218I-30M   N/A     CS218I-30N   N/A     CS218I-30P   N/A     CS218I-30PB   N/A     CS218I-30PB   N/A     CS218I-50B   N/A     CS218I-50D   N/A     CS218I-50N   N/A     CS218I-50P   N/A     CS218I-50P   N/A     CS218I-50PB   N/A     CS218I-50PB   N/A     TIP140   TIP142 TO-247     TIP142   TIP142 TO-247     TIP142   TIP142 TO-247     TIP145   TIP147 TO-247     TIP145   TIP147 TO-247     TIP145   TIP147 TO-247     TIP3055   N/A     TIP33A   TIP35C TO-247     TIP33B   TIP35C TO-247     TIP33B   TIP35C TO-247     TIP34A   TIP36C TO-247     TIP34B   TIP36C TO-247     TIP35S   TIP35C TO-247     TIP35S   TIP35C TO-247     TIP35B   TIP35C TO-247     TIP35C <td></td> <td></td>		
CS218I-30B   N/A     CS218I-30D   N/A     CS218I-30M   N/A     CS218I-30N   N/A     CS218I-30P   N/A     CS218I-30PB   N/A     CS218I-30PB   N/A     CS218I-50B   N/A     CS218I-50D   N/A     CS218I-50D   N/A     CS218I-50N   N/A     CS218I-50P   N/A     CS218I-50PB   N/A     CS218I-50PB   N/A     TIP140   TIP142 TO-247     TIP142   TIP142 TO-247     TIP142   TIP142 TO-247     TIP142   TIP147 TO-247     TIP145   TIP147 TO-247     TIP145   TIP147 TO-247     TIP145   TIP147 TO-247     TIP3055   N/A     TIP33A   TIP35C TO-247     TIP333A   TIP35C TO-247     TIP333B   TIP35C TO-247     TIP34A   TIP36C TO-247     TIP35A   TIP35C TO-247     TIP35B   TIP35C TO-247     TIP35C   TIP35C TO-247     TIP35C   TIP35C TO-247     TI		
CS218I-30D   N/A     CS218I-30M   N/A     CS218I-30P   N/A     CS218I-30PB   N/A     CS218I-30PB   N/A     CS218I-50B   N/A     CS218I-50D   N/A     CS218I-50D   N/A     CS218I-50N   N/A     CS218I-50P   N/A     CS218I-50P   N/A     CS218I-50PB   N/A     CS218I-50PB   N/A     CS218I-50PB   N/A     TIP140   TIP142 TO-247   H     TIP142   TIP142 TO-247   H     TIP142   TIP142 TO-247   H     TIP142   TIP147 TO-247   H     TIP145   TIP147 TO-247   H     TIP145   TIP147 TO-247   H     TIP355   N/A   T     TIP3055   N/A   T     TIP33A   TIP35C TO-247   H     TIP33A   TIP35C TO-247   H     TIP34B   TIP36C TO-247   H     TIP35A   TIP35C TO-247   H     TIP35B   TIP35C TO-247   H     TI		
CS218I-30M     N/A       CS218I-30P     N/A       CS218I-30PB     N/A       CS218I-30PB     N/A       CS218I-50B     N/A       CS218I-50D     N/A       CS218I-50D     N/A       CS218I-50N     N/A       CS218I-50P     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       TIP142     T0-247     H       TIP142     T0-247     H       TIP142     T0-247     H       TIP142     T0-247     H       TIP145     TIP147     T0-247       TIP146     TIP147     T0-247       TIP3055     N/A     T       TIP3055     N/A     T       TIP33A     TIP35C     T0-247       TIP33B     TIP35C     T0-247       TIP34B     TIP36C     T0-247       TIP35C     TIP3		
CS218I-30N     N/A       CS218I-30PB     N/A       CS218I-30PB     N/A       CS218I-50B     N/A       CS218I-50D     N/A       CS218I-50N     N/A       CS218I-50P     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247       TIP142     TIP142 TO-247       TIP145     TIP147 TO-247       TIP145     TIP147 TO-247       TIP145     TIP147 TO-247       TIP146     TIP147 TO-247       TIP355     N/A       TIP33A     TIP35C TO-247       TIP33B     TIP35C TO-247       TIP34A     TIP36C TO-247       TIP34B     TIP36C TO-247       TIP34B     TIP36C TO-247       TIP35C     TIP35C TO-247       TIP35B		
CS218I-30P     N/A       CS218I-30PB     N/A       CS218I-50B     N/A       CS218I-50D     N/A       CS218I-50N     N/A       CS218I-50P     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP145     TIP147 TO-247     H       TIP145     TIP147 TO-247     H       TIP355     N/A     TIP333A     TIP35C TO-247       TIP33A     TIP35C TO-247     H       TIP33B     TIP35C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP35A     TIP35C TO-247     H       TIP35B     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C <td></td> <td></td>		
CS218I-30PB     N/A       CS218I-50B     N/A       CS218I-50D     N/A       CS218I-50M     N/A       CS218I-50P     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP145     TIP147 TO-247     H       TIP145     TIP147 TO-247     H       TIP355     N/A     TIP3055       N/A     TIP338     TIP35C TO-247       TIP338     TIP35C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP35D     TIP35C TO-247     H       TIP35B     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H </td <td></td> <td></td>		
CS218I-50D     N/A       CS218I-50M     N/A       CS218I-50P     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP141     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP146     TIP147 TO-247     H       TIP147     TIP147 TO-247     H       TIP145     TIP147 TO-247     H       TIP355     N/A     H       TIP3055     N/A     TIP3055     N/A       TIP33A     TIP35C TO-247     H       TIP33B     TIP35C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP34C     TIP36C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C     TIP35C TO-247     H <td< td=""><td>CS218I-30PB</td><td>N/A</td></td<>	CS218I-30PB	N/A
CS218I-50M     N/A       CS218I-50P     N/A       CS218I-50PB     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP141     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP146     TIP147 TO-247     H       TIP147     TIP147 TO-247     H       TIP355     N/A     TIP3055     N/A       TIP33A     TIP35C TO-247     H     TIP332C     TIP35C TO-247     H       TIP33B     TIP35C TO-247     H     TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H     TIP34B     TIP36C TO-247     H       TIP35A     TIP35C TO-247     H     TIP35C     TO-247     H       TIP35C     TIP35C TO-247     H     TIP36C     TO-247     H       TIP35C     TIP35C TO-247     H     TIP35C     TO-247     H       TIP35C	CS218I-50B	N/A
CS218I-50N     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP141     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP146     TIP147 TO-247     H       TIP2955     N/A     H       TIP3055     N/A     TIP33055       N/A     TIP338     TIP35C TO-247       TIP338     TIP35C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35B     TIP35C TO-247     H       TIP35C SL     TIP35C TO-247     H       TIP35C SL     TIP35C TO-247     H       TIP366     TIP36C TO-247     H       TIP366     TIP35	CS218I-50D	N/A
CS218I-50P     N/A       CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP141     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP146     TIP147 TO-247     H       TIP2955     N/A     T       TIP3055     N/A     T       TIP33A     TIP35C TO-247     H       TIP33B     TIP35C TO-247     H       TIP33C     TIP35C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C SL     TIP35C TO-247 <td>CS218I-50M</td> <td>N/A</td>	CS218I-50M	N/A
CS218I-50PB     N/A       TIP140     TIP142 TO-247     H       TIP141     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP142     TIP142 TO-247     H       TIP145     TIP147 TO-247     H       TIP146     TIP147 TO-247     H       TIP2955     N/A     T       TIP3055     N/A     T       TIP338     TIP35C TO-247     H       TIP338     TIP35C TO-247     H       TIP34A     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP34B     TIP36C TO-247     H       TIP35C     TIP35C TO-247     H       TIP35C SL	CS218I-50N	N/A
TIP140TIP142 TO-247HTIP141TIP142 TO-247HTIP142TIP142 TO-247HTIP145TIP147 TO-247HTIP146TIP147 TO-247HTIP2955N/ATTIP3055N/ATTIP33ATIP35C TO-247HTIP33BTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35DTIP35C TO-247HTIP35CTIP35C TO-247HTIP34BTIP36C TO-247HTIP35CTIP35C TO-247HTIP35ATIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247H	CS218I-50P	N/A
TIP141TIP142 TO-247HTIP142TIP142 TO-247HTIP145TIP147 TO-247HTIP146TIP147 TO-247HTIP147TIP147 TO-247HTIP2955N/ATTIP3055N/ATTIP33ATIP35C TO-247HTIP33BTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35DTIP35C TO-247HTIP35CTIP35C TO-247HTIP35ATIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP35ATIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247H	CS218I-50PB	N/A
TIP142TIP142 TO-247HTIP145TIP147 TO-247HTIP146TIP147 TO-247HTIP147TIP147 TO-247HTIP2955N/ATIP3055N/ATIP33ATIP35C TO-247HTIP33BTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP35BTIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247H	TIP140	TIP142 TO-247 H
TIP145TIP147 TO-247HTIP146TIP147 TO-247HTIP147TIP147 TO-247HTIP2955N/ATIP3055TIP3055N/ATIP33CTIP33BTIP35C TO-247HTIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35CTIP35C TO-247HTIP35CTIP35C TO-247HTIP35BTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP141	TIP142 TO-247 H
TIP146TIP147 TO-247HTIP147TIP147 TO-247HTIP2955N/ATIP3055TIP3055N/ATIP33ATIP33BTIP35C TO-247HTIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247HTIP36BTIP36C TO-247H	TIP142	TIP142 TO-247 H
TIP147TIP147 TO-247HTIP2955N/ATIP3055N/ATIP33ATIP35C TO-247HTIP33BTIP35C TO-247HTIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP145	ТІР147 ТО-247 Н
TIP2955N/ATIP3055N/ATIP33ATIP35C TO-247TIP33BTIP35C TO-247TIP33CTIP35C TO-247TIP34ATIP36C TO-247TIP34BTIP36C TO-247TIP34CTIP36C TO-247TIP35BTIP35C TO-247TIP35CTIP35C TO-247TIP35CTIP35C TO-247TIP35BTIP35C TO-247TIP35CTIP35C TO-247TIP35CTIP35C TO-247TIP35CTIP35C TO-247TIP36ATIP36C TO-247TIP36BTIP36C TO-247TIP36BTIP36C TO-247	TIP146	ТІР147 ТО-247 Н
TIP3055N/ATIP33ATIP35C TO-247HTIP33BTIP35C TO-247HTIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35CTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP147	ТІР147 ТО-247 Н
TIP33ATIP35C TO-247HTIP33BTIP35C TO-247HTIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35CTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP2955	N/A
TIP33BTIP35C TO-247HTIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP34CTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36TIP36C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP3055	
TIP33CTIP35C TO-247HTIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP34CTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP33A	
TIP34ATIP36C TO-247HTIP34BTIP36C TO-247HTIP34CTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP33B	
TIP34BTIP36C TO-247HTIP34CTIP36C TO-247HTIP35ATIP35C TO-247HTIP35BTIP35C TO-247HTIP35CTIP35C TO-247HTIP35C SLTIP35C TO-247HTIP36ATIP36C TO-247HTIP36BTIP36C TO-247H	TIP33C	
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TIP35C SL   TIP35C TO-247   H     TIP36   TIP36C TO-247   H     TIP36A   TIP36C TO-247   H     TIP36B   TIP36C TO-247   H		
TIP36 TIP36C TO-247 H   TIP36A TIP36C TO-247 H   TIP36B TIP36C TO-247 H		
TIP36A TIP36C TO-247 H   TIP36B TIP36C TO-247 H		
TIP36B TIP36C TO-247 H		
TIP36B SL     TIP36C TO-247     H		
	TIP36B SL	ТІРЗ6С ТО-247 Н

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